

IN THE CLAIMS

Claim 1 (Currently Amended) A method of providing a prosthetic socket for a residual limb that extends distally from a joint, comprising the steps of:

positioning the residual limb in a substantially positive an approximately ninety degree or greater flexion position;

applying moldable means over at least a portion of the residual limb and joint;
permitting said moldable means to cure and form a negative mold of at least a
portion of the residual limb and joint; and
removing said mold from the residual limb and joint.

Claim 2 (Original) The method of claim 1 further comprising the step of shaping said mold so that a desired range of motion in the joint is permitted when said mold is repositioned on the residual limb.

Claim 3 (Original) The method of claim 2 further comprising the step of forming a positive model of the residual limb using said mold.

Claim 4 (Original) The method of claim 3 further comprising the step of constructing the socket over the positive model of the residual limb.

Claim 5 (Original) The method of claim 4 further comprising the step of reducing and building up the positive model of the residual limb prior to the step of constructing the socket.

Claim 6 (Original) The method of claim 2 further comprising the step of repositioning said mold onto the residual limb after the step of shaping said mold.

1 Claim 7 (Original) The method of claim 6 further comprising the step of making a
cast of the residual limb that incorporates said mold.

2 Claim 8 (Original) The method of claim 7 further comprising the step of forming a
positive model of the residual limb using said cast.

3 Claim 9 (Original) The method of claim 8 further comprising the step of
constructing the socket over the positive model of the residual limb.

4 Claim 10 (Original) The method of claim 9 further comprising the step of reducing
and building up the positive model of the residual limb prior to the step of constructing
the socket.

5 Claim 11 (Original) The method of claim 1 further comprising the step of fitting a
liner onto the residual limb and joint prior to the step of applying said moldable means
over the residual limb and joint.

6 Claim 12 (Original) The method of claim 11 wherein said liner is comprised of
silicone.

7 Claim 13 (Original) The method of claim 11 wherein said moldable means is
comprised of a resin-impregnated flexible sock.

8 Claim 14 (Original) The method of claim 13 wherein said sock is comprised of
carbon fibers.

9 Claim 15 (Original) The method of claim 13 wherein said sock is comprised of a
lofted glass yarn.

10 Claim 16 (Original) The method of claim 13 further comprising the step of
adapting said mold to be coupled to a prosthetic appendage.

Claim 17 (Original) The method of claim 16 further comprising the step of
1 adapting said mold to be operatively coupled to a suspension system.

Claim 18 (New) A method of providing a prosthetic socket for a residual limb that
extends distally from a joint, comprising the steps of:

5 positioning the residual limb in a substantially positive flexion position;

applying moldable means over at least a portion of the residual limb and joint to
capture a shape formed by femoral condyles within the limb as they
naturally move into a proximal and anterior position, moving forward and
proximal at said substantially positive flexion position;

10 permitting said moldable means to cure and form a negative mold of at least a
portion of the residual limb and joint; and

removing said mold from the residual limb and joint.

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